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Phishing is a model problem for illustrating usability concerns of privacy and security because both system designers and attackers battle using user interfaces to guide (or misguide) users. We propose a new scheme, Dynamic Security Skins, that allows a remote web server to prove its identity in a way that is easy for a human user to verify and hard for an attacker to spoof. We describe the design of an extension to the Mozilla Firefox browser that implements this scheme. We present two novel inte ...

2 Verification: Static verification of security requirements in role based CSCW systems Tanvir Ahmed, Anand R. Tripathi**June 2003 Proceedings of the eighth ACM symposium on Access control models and technologies****Publisher:** ACM PressFull text available:  [pdf\(260.95 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

In this paper, we present static verification of security requirements for CSCW systems using finite-state techniques, i.e., model checking. The coordination and security constraints of CSCW systems are specified using a role based collaboration model. The verification ensures completeness and consistency of the specification given global requirements. We have developed several verification models to check security properties, such as task-flow constraints, information flow or confidentiality, a ...

Keywords: finite-state based model checking, methodology for access control policy design, role based access control, security policy specification

3 Formalizing the safety of Java, the Java virtual machine, and Java card Pieter H. Hartel, Luc Moreau**December 2001 ACM Computing Surveys (CSUR), Volume 33 Issue 4****Publisher:** ACM PressFull text available:  [pdf\(442.86 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

We review the existing literature on Java safety, emphasizing formal approaches, and the impact of Java safety on small footprint devices such as smartcards. The conclusion is that although a lot of good work has been done, a more concerted effort is needed to build a coherent set of machine-readable formal models of the whole of Java and its

implementation. This is a formidable task but we believe it is essential to build trust in Java safety, and thence to achieve ITSEC level 6 or Common Crite ...

Keywords: Common criteria, programming

4 Dynamic analysis of security protocols □

 Alec Yasinsac

February 2001 **Proceedings of the 2000 workshop on New security paradigms**

Publisher: ACM Press

Full text available:  pdf(871.04 KB) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

5 A fixpoint calculus for local and global program flows □

 Rajeev Alur, Swarat Chaudhuri, P. Madhusudan

January 2006 **ACM SIGPLAN Notices , Conference record of the 33rd ACM SIGPLAN-SIGACT symposium on Principles of programming languages POPL '06**, Volume 41 Issue 1

Publisher: ACM Press

Full text available:  pdf(280.13 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

We define a new fixpoint modal logic, *the visibly pushdown μ -calculus* (VP- μ), as an extension of the modal μ -calculus. The models of this logic are execution trees of structured programs where the procedure calls and returns are made visible. This new logic can express pushdown specifications on the model that its classical counterpart cannot, and is motivated by recent work on visibly pushdown languages [4]. We show that our logic naturally captures several interesting pro ...

Keywords: μ -calculus, games, infinite-state, logic, model-checking, pushdown systems, specification, verification

6 Computer-supported cooperative work in design: On-the-fly web content integrity □

 check boosts users' confidence

Soroush Sedaghat, Josef Pieprzyk, Ehsan Vossough

November 2002 **Communications of the ACM**, Volume 45 Issue 11

Publisher: ACM Press

Full text available:  pdf(182.67 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)
 html(25.45 KB)

Malicious attacks on Web servers by intruders and hackers are prime concerns of organizations, administrators of Web sites, as well as users who access them.

7 Decidability and proof systems for language-based noninterference relations □

 Mads Dam

January 2006 **ACM SIGPLAN Notices , Conference record of the 33rd ACM SIGPLAN-SIGACT symposium on Principles of programming languages POPL '06**, Volume 41 Issue 1

Publisher: ACM Press

Full text available:  pdf(203.55 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Noninterference is the basic semantical condition used to account for confidentiality and integrity-related properties in programming languages. There appears to be an at least implicit belief in the programming languages community that partial approaches based on type systems or other static analysis techniques are necessary for noninterference analyses to be tractable. In this paper we show that this belief is not necessarily true. We focus on the notion of strong low bisimulation proposed by ...

Keywords: information flow, intransitive noninterference, language-based security, multi-level security, noninterference

8 Confined types

 Jan Vitek, Boris Bokowski

October 1999 **ACM SIGPLAN Notices , Proceedings of the 14th ACM SIGPLAN conference on Object-oriented programming, systems, languages, and applications OOPSLA '99**, Volume 34 Issue 10

Publisher: ACM Press

Full text available:  pdf(1.71 MB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Sharing and transfer of object references is difficult to control in object-oriented languages. Unconstrained sharing poses serious problems for writing secure components in object-oriented languages. In this paper, we present a set of inexpensive syntactic constraints that strengthen encapsulation in object-oriented programs and facilitate the implementation of secure systems. We introduce two mechanisms: confined types to impose static scoping on dynamic object references ...

9 Computer security (SEC): Formal specification of role-based security policies for clinical information systems

 Karsten Sohr, Michael Drouineaud, Gail-Joon Ahn

March 2005 **Proceedings of the 2005 ACM symposium on Applied computing SAC '05**

Publisher: ACM Press

Full text available:  pdf(196.29 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Many healthcare organizations have transited from their old and disparate business models based on ink and paper to a new, consolidated ones based on electronic patient records. There are significant demands on secure mechanisms for collaboration and data sharing among clinicians, patients and researchers through clinical information systems. In order to fulfil the high demands of data protection in such systems, we believe that access control policies play an important role to reduce the risks ...

Keywords: LTL, authorisation constraints, healthcare environments

10 Harmless advice

 Daniel S. Dantas, David Walker

January 2006 **ACM SIGPLAN Notices , Conference record of the 33rd ACM SIGPLAN-SIGACT symposium on Principles of programming languages POPL '06**, Volume 41 Issue 1

Publisher: ACM Press

Full text available:  pdf(258.39 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

This paper defines an object-oriented language with *harmless* aspect-oriented advice. A piece of harmless advice is a computation that, like ordinary aspect-oriented advice, executes when control reaches a designated control-flow point. However, unlike ordinary advice, harmless advice is designed to obey a weak non-interference property. Harmless advice may change the termination behavior of computations and use I/O, but it does not otherwise influence the final result of the mainline code ...

Keywords: aspect-oriented, aspects, harmless advice, noninterference

11 Short papers: Application of synchronous dynamic encryption system (SDES) in wireless sensor networks

 Hamdy S. Soliman, Mohammed Omari

October 2005 **Proceedings of the 2nd ACM international workshop on Performance evaluation of wireless ad hoc, sensor, and ubiquitous networks PE-WASUN '05**

Publisher: ACM Press

Full text available: [pdf\(59.63 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

In this paper, we introduce a novel security protocol for wireless network of sensors. The new security mechanism is efficient, flexible, and very amenable for deployment in the resource constrained sensor networks. Our cryptosystem is a simple and fast stream cipher that utilizes permutation vectors as encryption keys, forcing an intruder to a brute-force time complexity of $\Omega(2^n)$. In addition, our mechanism alleviates the effect of sensor capture, via its re-keying feature. It a ...

Keywords: deployment knowledge, encryption permutation vectors, power balancing, sensors security primitives, stream ciphers

12 Emerging applications: Defending against redirect attacks in mobile IP 

 Robert H. Deng, Jianying Zhou, Feng Bao

November 2002 **Proceedings of the 9th ACM conference on Computer and communications security**

Publisher: ACM Press

Full text available: [pdf\(266.04 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

The route optimization operation in Mobile IP Version 6 (MIPv6) allows direct routing from any correspondent node to any mobile node and thus eliminates the problem of "triangle routing" present in the base Mobile IP Version 4 (MIPv4) protocol. Route optimization, however, requires that a mobile node constantly inform its correspondent nodes about its new care-of addresses by sending them binding update messages. Unauthenticated or malicious binding updates open the door for intruders to perform ...

Keywords: authenticated key-exchange, mobile IP, mobile IP security, redirect attack, secure binding update

13 A type system for expressive security policies 

 David Walker

January 2000 **Proceedings of the 27th ACM SIGPLAN-SIGACT symposium on Principles of programming languages**

Publisher: ACM Press

Full text available: [pdf\(1.87 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Certified code is a general mechanism for enforcing security properties. In this paradigm, untrusted mobile code carries annotations that allow a host to verify its trustworthiness. Before running the agent, the host checks the annotations and proves that they imply the host's security policy. Despite the flexibility of this scheme, so far, compilers that generate certified code have focused on simple type safety properties rather than more general security properties.

14 The specification and implementation of "commercial" security requirements including dynamic segregation of duties 

 Simon N. Foley

April 1997 **Proceedings of the 4th ACM conference on Computer and communications security**

Publisher: ACM Press

Full text available: [pdf\(1.32 MB\)](#) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

15 Static enforcement of security with types 

 Christian Skalka, Scott Smith

September 2000 **ACM SIGPLAN Notices , Proceedings of the fifth ACM SIGPLAN international conference on Functional programming ICFP '00**, Volume 35 Issue 9

Publisher: ACM Press

Full text available: [pdf\(668.13 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

A number of security systems for programming languages have recently appeared, including systems for enforcing some form of *access control*. The Java JDK 1.2 security architecture is one such system that is widely studied and used. While the architecture has many appealing features, access control checks are all implemented via dynamic method calls. This is a highly non-declarative form of specification which is hard to read, and which leads to additional run-time overhead. In this paper, ...

16 [Data Security](#) □

 Dorothy E. Denning, Peter J. Denning

September 1979 **ACM Computing Surveys (CSUR)**, Volume 11 Issue 3

Publisher: ACM Press

Full text available: [pdf\(1.97 MB\)](#) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

17 [Stack inspection: theory and variants](#) □

 Cédric Fournet, Andrew D. Gordon

January 2002 **ACM SIGPLAN Notices, Proceedings of the 29th ACM SIGPLAN-SIGACT symposium on Principles of programming languages POPL '02**, Volume 37 Issue 1

Publisher: ACM Press

Full text available: [pdf\(318.67 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#)

Stack inspection is a security mechanism implemented in runtimes such as the JVM and the CLR to accommodate components with diverse levels of trust. Although stack inspection enables the fine-grained expression of access control policies, it has rather a complex and subtle semantics. We present a formal semantics and an equational theory to explain how stack inspection affects program behaviour and code optimisations. We discuss the security properties enforced by stack inspection, and also cons ...

18 [Stack inspection: Theory and variants](#) □

 Cédric Fournet, Andrew D. Gordon

May 2003 **ACM Transactions on Programming Languages and Systems (TOPLAS)**, Volume 25 Issue 3

Publisher: ACM Press

Full text available: [pdf\(357.08 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#), [review](#)

Stack inspection is a security mechanism implemented in runtimes such as the JVM and the CLR to accommodate components with diverse levels of trust. Although stack inspection enables the fine-grained expression of access control policies, it has rather a complex and subtle semantics. We present a formal semantics and an equational theory to explain how stack inspection affects program behavior and code optimisations. We discuss the security properties enforced by stack inspection, and also consi ...

Keywords: Access control, contextual equivalence, equational reasoning, operational semantics, stack inspection

19 [An object-oriented model of access control based on role](#) □

 Yan Han, Liu Fengyu, Zhang Hong

March 2000 **ACM SIGSOFT Software Engineering Notes**, Volume 25 Issue 2

Publisher: ACM Press

Full text available: [pdf\(607.02 KB\)](#) Additional Information: [full citation](#), [abstract](#), [index terms](#)

At present, majority access control models mainly deal with data-protection at the back-end of applications. However, they are not applicable for large and complex multi-user applications. Though Object Technology has turned into one of the mainstream approaches for large and complex applications development, it still lacks a general model

of application-level access control. While the existing models of role-based access control could simplify privilege management, they neglect the dynamic feat ...

Keywords: access control, application development, modeling, object-oriented, role, security management

20 Security technology and applications: Modelling a flexible network security systems using multi-agents systems: security assessment considerations

Gustavo A. Santana Torrellas, Luis A. Villa Vargas

September 2003 **Proceedings of the 1st international symposium on Information and communication technologies ISICT '03**

Publisher: Trinity College Dublin

Full text available:  [pdf\(355.16 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#)

Recent developments have made it possible to interoperate complex business applications at much lower costs. Application interoperation, along with business process reengineering can result in significant savings by eliminating work created by disconnected business processes due to isolated business applications. However, we believe much greater productivity benefits can be achieved by facilitating timely decision-making, utilizing information from multiple enterprise perspectives. To stay compe ...

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